

Name: _____

Exp. Grad.: Fall ____ / Spring ____

Mechanical Engineering
Suggested Curriculum Course Plan for students entering Fall 2022 – Spring 2023

Semester 1		Semester 2		Semester 3		Semester 4	
Course (cr. Hr.)	X	Course (cr. Hr.)	X	Course (cr. Hr.)	X	Course (cr. Hr.)	X
CHEM 105 (3) & CHEM 105L (1)		CHEM 106 (3) & CHEM 106L (1)		ENGR 110 (4)		ELEC 221 or (ELEC 223 & ELEC 325) (4)	
ENGL 101 (4)*		ENGR 102 (2)		ENGR 204 (3)		ENGR 360 (0)	
ENGR 101 (2)		ENGR 104 (2)		ENGR 360 (0)		MATH 271 (3)	
ENGR 117 (2)		ENGR 160 (0)		MATH 253 (4)		MECH 212 (3)	
ENGR 160 (0)		MATH 152 (4)		MECH 211 (3)		MECH 241 (3)	
MATH 151 (4)		PHYS 125 (4)		PHYS 126 (4)		GenEd (3)	
		UNIV 101 (1)					
Total (16)		Total (17)		Total (18)		Total (16)	

*ENGL 101 if required; otherwise ENGR 110 or student choice of GenEd (2-4).

Semester 5		Semester 6		Semester 7		Semester 8	
Course (cr. Hr.)	X	Course (cr. Hr.)	X	Course (cr. Hr.)	X	Course (cr. Hr.)	X
ENGR 202 (3)		ENGR 360 (0)		ENGR 360 (0)		ENGR 306 [‡] (2)	
ENGR 360 (0)		MATH 371 (4)		ENGR 490 (2)		ENGR 360 (0)	
MECH 320 (3)		MECH 321 (3)		MECH 366 (3)		ENGR 395 [‡] (2)	
MECH 324 (3)		MECH 326 (3)		MECH 417 (3)		ENGR 490 (2)	
MECH 343 (2)		MECH 364 (3)		Elective [°] (3)		Elective [°] (3)	
MECH 362 (3)		GenEd (4)		GenEd (4)		Elective [°] (3)	
GenEd (2)						MECH 327 (2)	
Total (16)		Total (17)		Total (15)		Total (16)	

Total Credits: 129

[°]Nine credits of electives as defined below with a minimum of 6 credits of MECH Electives.

[‡]ENGR 486 (4) may be substituted for ENGR 306 (2) and ENGR 395 (2).

Definitions of Electives:

MECH Electives: (choose two): CEMS 336, CEMS 446, RNEW 468, any non-required MECH 4xy course.

Electives: (A) Most 300- and 400-level courses designated CEMS, CHEM, ENGR, MATH, MECH, PHYS, or RNEW.

Exceptions include: CHEM 343, MATH 331, and non-MECH Topics courses unless approved by the Dean. (B) One of FIN 348 or MGMT 328, (C) COOP 385, (D) MECH Topics unless used as MECH Elective.

Requirements:

8. AU Global Perspective
9. AU Wellness & Physical Education
10. SOE Minimum Credit Requirement of 128 credits
11. SOE GPA requirement and 'D' policy
12. SOE Seminar requirement
13. SOE General Education Requirement of 60 credits comprising: Quantitative Reasoning, Humanities (minimum of **six credits with at least two different acronyms**, Natural Science, Social Science (minimum of **three credits**), AU Wellness, Written Communication, and General/Arts (maximum of eight credits).
14. Defense of Capstone Poster & submission of approved Thesis. (Thesis **ENGR 490 2+2** with the same instructor).

Complete SOE requirements are available in the AU Undergraduate Catalog [2022-2023](#).

<https://alfred.edu/academics/undergrad-majors-minors/catalog.cfm>

Degree Evaluation, including What-If, available at <https://banweb.alfred.edu/> or via DegreeWorks.